IN THE CLAIMS

Claim 1 (cancelled)

Claim 2 (cancelled)

Claim 3 (previously presented): The system of claim 7, further comprising:

a processor coupled to the photon detector for generating a thermal distribution of the electronic device based on information received from the photon detector.

Claim 4 (previously presented): The system of claim 7, wherein the coolant comprises any one of water and a cold gas.

Claim 5 (previously presented): The system of claim 7, wherein the coolant comprises at least one of any alkanes and perfluoroalkanes.

Claim 6 (previously presented): The system of claim 7, wherein the coolant is a non-polar liquid comprising any one of perflouro-octane, perfluro-hexane, octane, hexane and carbon tetrachloride .

Claim 7 (previously presented): A system for measuring thermal distributions of an electronic device during operation, comprising:

a duct adapted to be coupled with an electronic device, wherein the electronic device forms one side of the duct;

a coolant flowing through the duct so as to cool the electronic device; and

a photon detector located adjacent to the duct for detecting photons emitted from the electronic device, wherein the duct and the coolant are at least partially transparent to photons with wavelengths between about 0.1 micron to 20 microns.

Claim 8 (previously presented): The system of claim 7, wherein the duct comprises any one of polished silicon, quartz, sapphire, glass and diamond.

Claim 9 (previously presented): The system of claim 7, wherein the photon detector captures thermal information from the electronic device during operation of the electronic device, wherein the electronic device is operating under conditions for which the electronic device is designed.

Claim 10 (previously presented): The system of claim 7, wherein the photon detector is an infrared camera.

Claim 11 (withdrawn): The system of claim 1, wherein the photon detector detects photons reflected from the electronic device.

Claim 12 (withdrawn): The system of claim 1, wherein the photon-detector detects photons comprising the luminescence from the electronic device.

Claim 13 (cancelled)

Claim 14 (cancelled)

Claim 15 (previously presented): The method of claim 19, further comprising:

generating a thermal distribution of the electronic device based on information received from the photon detector.

Claim 16 (previously presented): The method of claim 19, wherein the coolant comprises any one of water and a cold gas.

Claim 17 (previously presented): The method of claim 19, wherein the coolant comprises at least one of any alkanes and perfluoroalkanes.

Claim 18 (previously presented): The method of claim 19, wherein the coolant is a non-polar liquid comprising any one of perflouro-octane, perfluoro-hexane, octane, hexane, and carbon tetrachloride.

Claim 19 (currently amended): A method for detecting thermal ~~distributions~~ characteristics of an electronic device during operation, the method comprising:

detecting, by a photon-detector, photons from an electronic device during operation of the electronic device, the photons indicative of thermal characteristics of the electronic device, the photon detector located adjacent to a duct that is adjacent to the electronic device, wherein the electronic device forms one side of the duct and a coolant flows through the duct so as to cool the electronic device and the duct and the coolant are at least partially transparent to photons with wavelengths between about 0.1 micron to 20 microns.

Claim 20 (previously presented): The method of claim 19, wherein the duct comprises any one of polished silicon, quartz, sapphire, glass and diamond.

Claim 21 (previously presented): The method of claim 19, wherein the photon detector captures thermal information from the electronic device during operation of the electronic device, wherein the electronic device is operating under conditions for which the electronic device is designed.

Claim 22 (previously presented): The method of claim 19, wherein photon detector is an infrared camera.

Claim 23 (withdrawn): The method of claim 13, wherein photon detector detects photons reflected from the electronic device.

Claim 24 (cancelled)

Claim 25 (cancelled)

Claim 26 (cancelled)

Claim 27 (cancelled)

Claim 28 (cancelled)

Claim 29 (previously presented): The system of claim 7, wherein the electronic device includes a protecting outer layer..

Claim 30 (previously presented): The method of claim 19, wherein the electronic device includes a protecting outer layer.

Claim 31 (cancelled)

Claim 32 (cancelled)